

Tune Tracker Status

C.Y. Tan

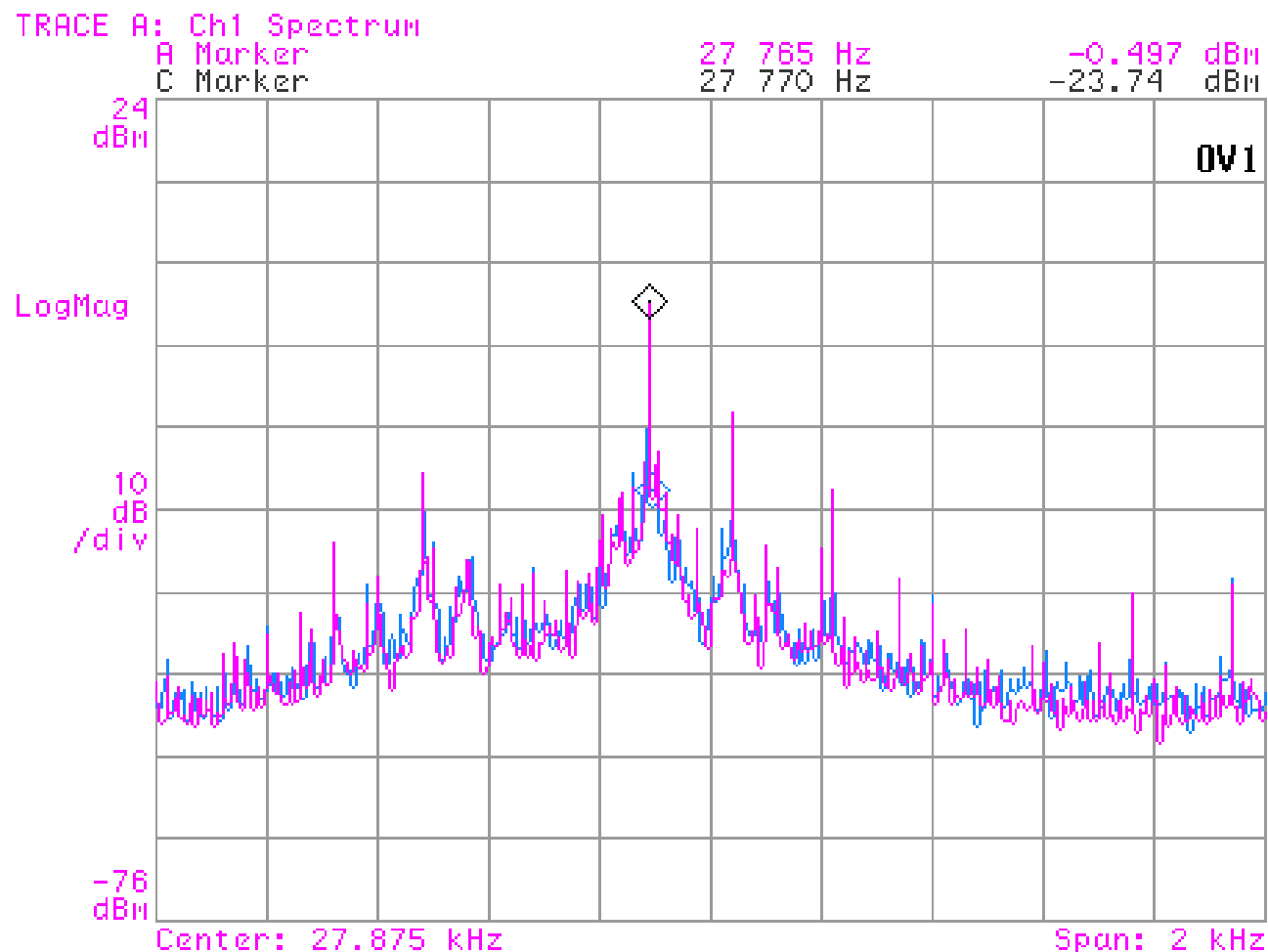
11 May 2004

Status as of 10 May 2004

- Horizontal plane installed.
- First tests of PLL with continuous and pulsed excitation PLL.
 - ▶ Claim: looks good so far!
- Note: pulsed PLL 10ms on 30ms off.
- All experiments done with 1 coalesced bunch (except when noted)

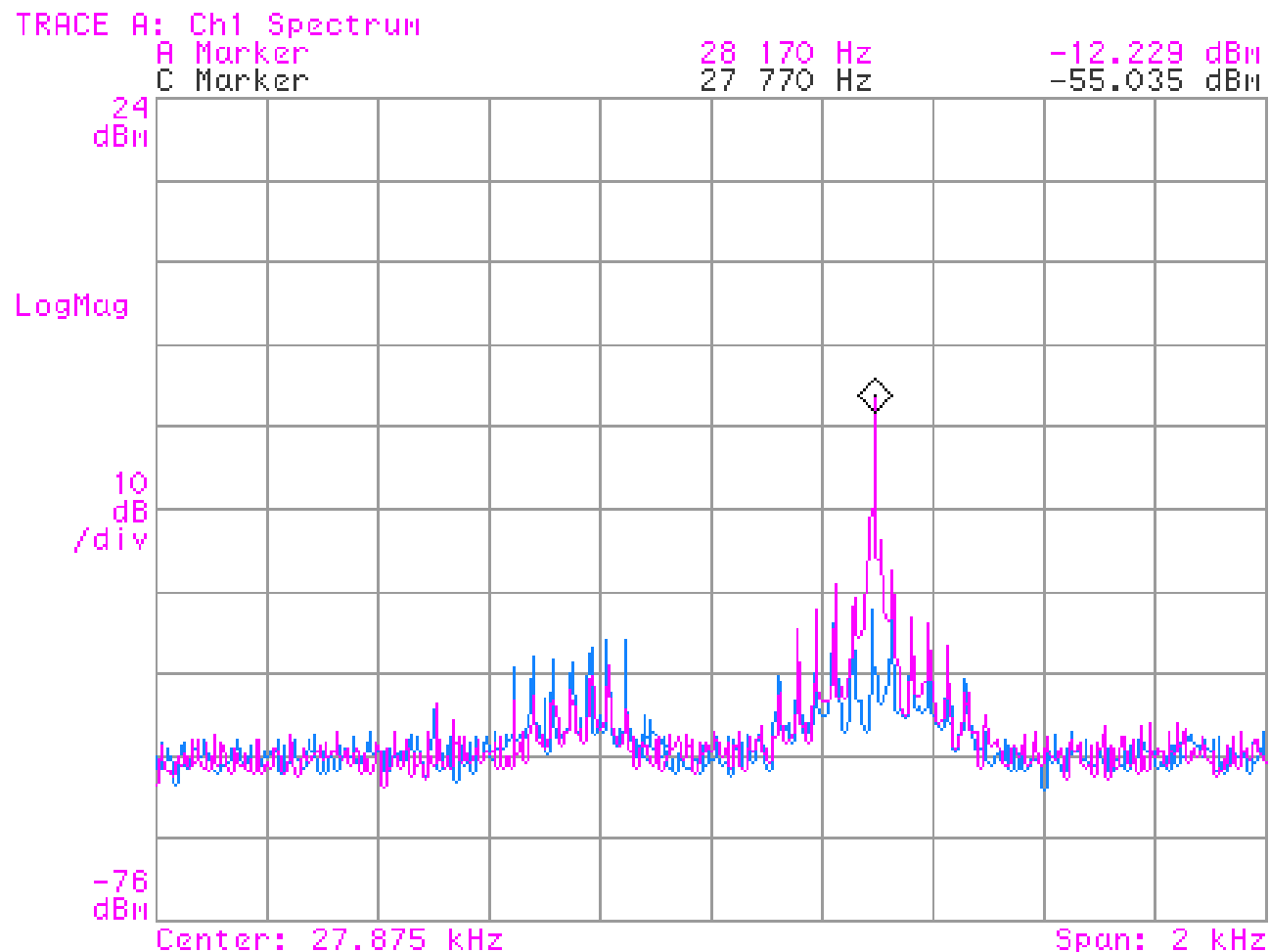
Tickling with 2.5mW of power at 150GeV

Date: 06-06-02 Time: 06:25 AM

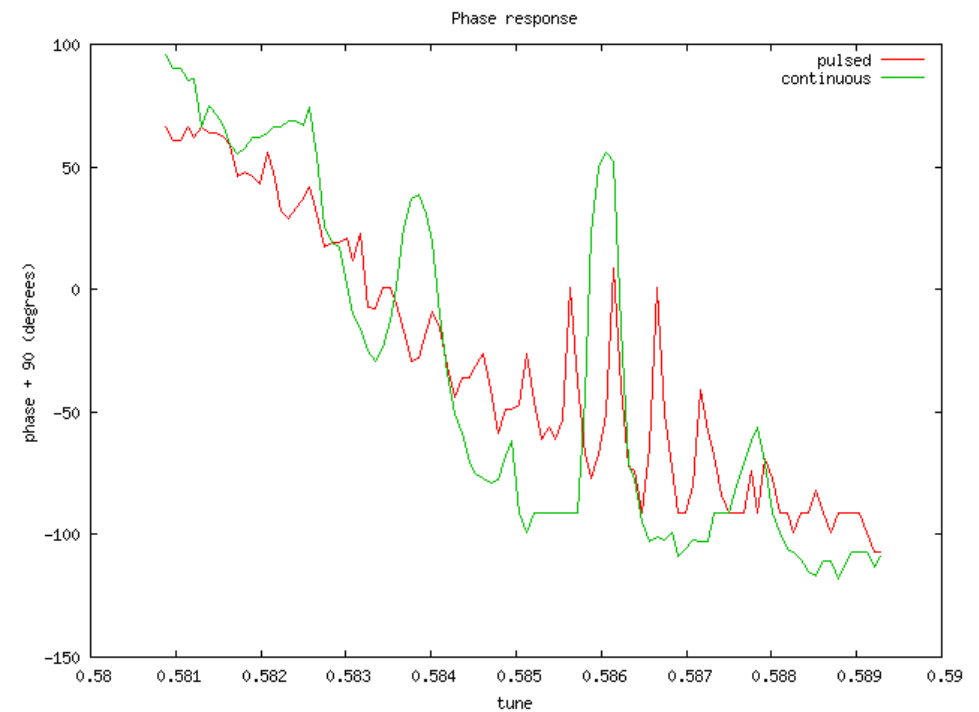
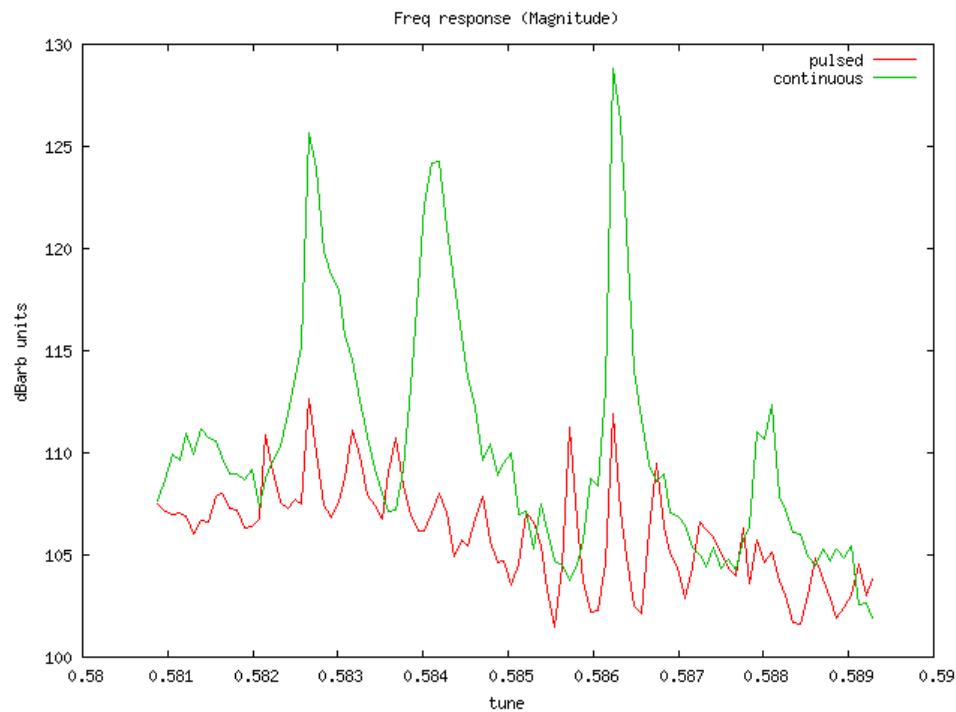


Tickling with 2.5mW of power at 980GeV (uncoalesced)

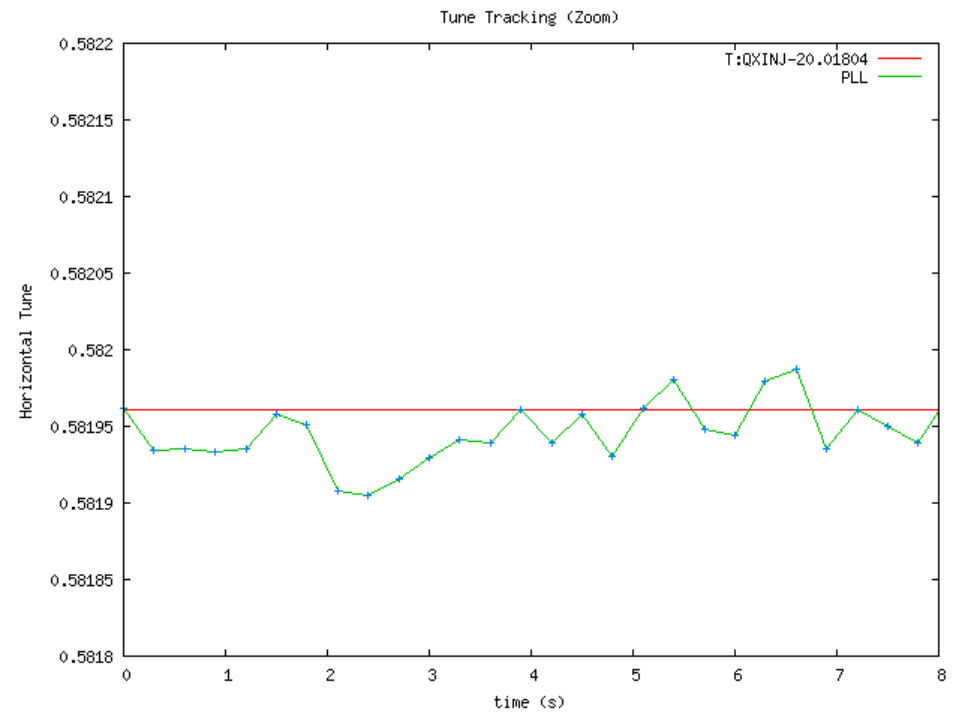
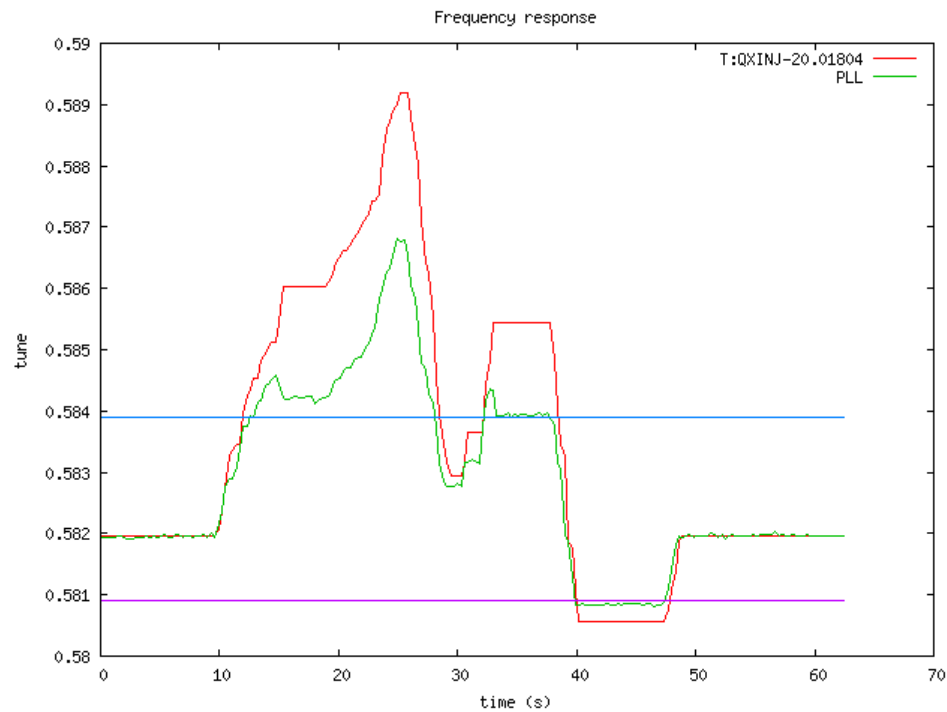
Date: 06-06-02 Time: 06:31 AM



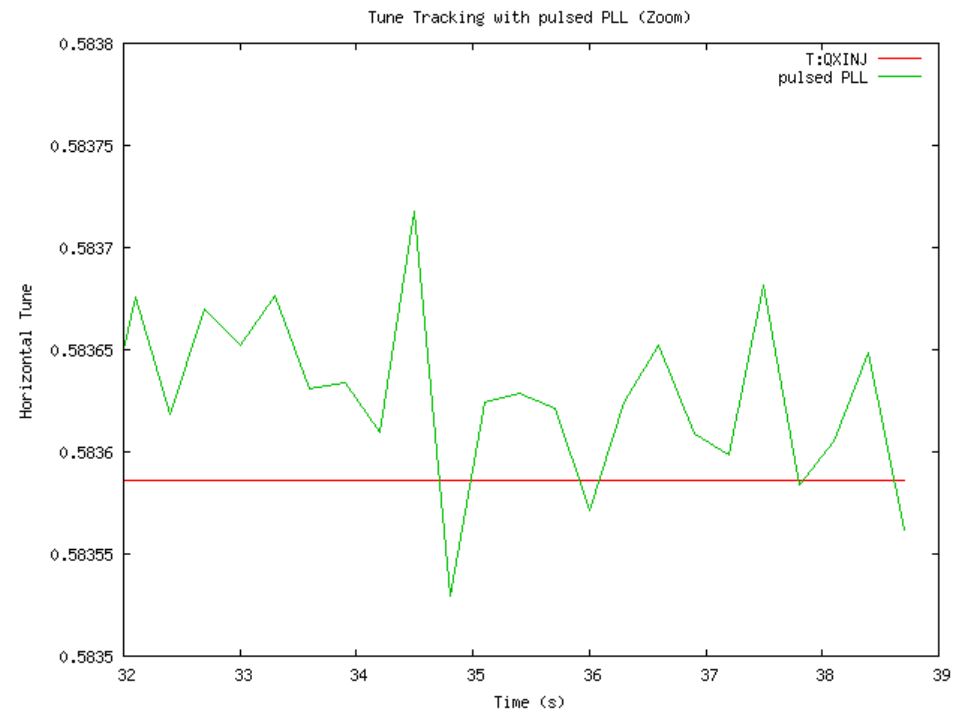
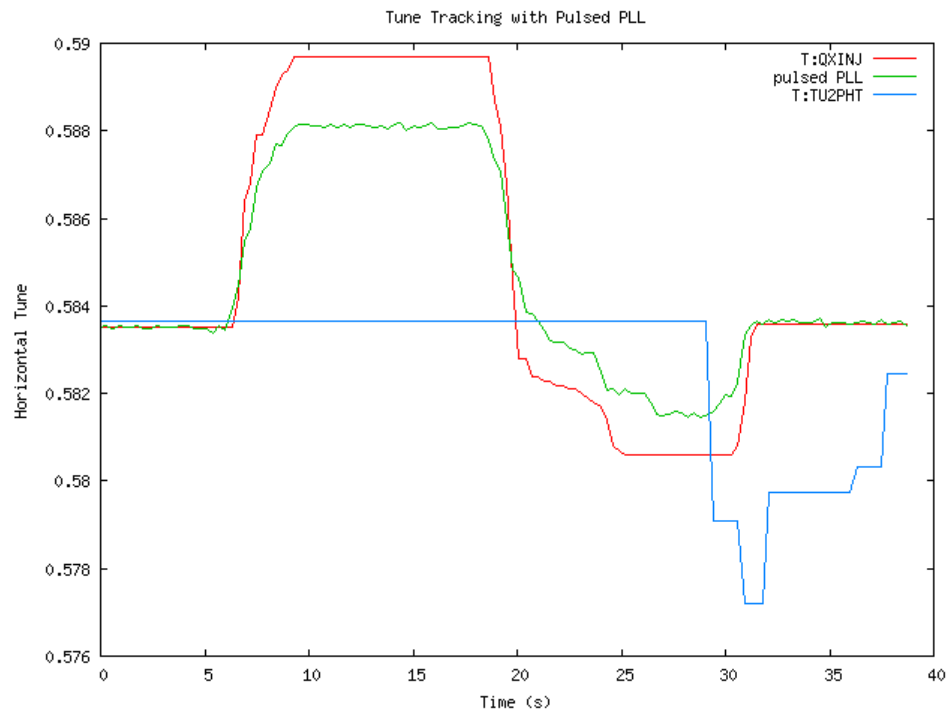
Measured Beam Response with Continuous and Pulsed Excitation



Tracking with Continuous PLL



Tracking with Pulsed PLL



Things to do ...

- Check emittance growth.
- See if PLL works up the ramp.
- Automatic gain control on the way.
- RF switch to turn on/off tickler remotely on the way.
- Integration into control system.